

Table of Value of US Mail and Electronic Mail

March 24, 2017

Mr. Jeffrey Thein
New Jersey Department of Environmental Protection
Division of Water Quality Bureau of Point Source Permitting – Region One
P.O. Box 029
Trenton, New Jersey 08625-0029

Re: Discharge Monitoring Report for February 2017
Diamond Alkali Superfund Site
Newark, New Jersey

Dear Mr. Thein:

In accordance with the New Jersey Pollutant Dischage Elimination System (NJPDES) Discharge to Surface Water (DSW) Permit Equivalent, dated May 2, 2000, for the Diamond Alkali Superfund Site in Newark, New Jersey, Tierra Solutions, Inc. (Tierra, formerly Chemical Land Hol dings, Inc.) has prepared the Discharge Monitoring Report (DMR) for the month of February 2017 (Attachment 1). Tierra is currently extracting and treating groundwater in the on-site water treatment system and directly discharging effluent to the Passaic River.

The effluent is sampled once per month and analyzed for the chemical constituents listed in the NJPDES DSW Permit Equivalent. The analytical results for each sample are validated and the constituent concentrations are compared against the concentration limits establish ed in the NJPDES DSW Permit Equivalent. The analytical results are representative of the effluent discharged throughout the month.

In February 2017, 66,324 gallons of groundwater wer e treated and discharged to the Passaic River. The direct discharge of treated effluent was limited to period s of high tide when the adjacent mud flats were not exposed. A flow meter was used to record the volume of treated effluent discharged to the river.

A summary of the analytical results for the February 2017 treated effluent and the corresponding monthly average and daily maximum permit limit concentration for each chemical constituent is included in Attachment 2.

If you should have any questions related to the DMR, please call me at (732) 579-7586.

Two Tower Center Blvd, 10th Floor East Brunswick, NJ 08816 Sincerely,

Brian Mikucki

Bi Michal.

On behalf of Occidental Chemical Corporation

(as successor to Diamond Shamrock Chemicals Company)

Enclosures

Cc: Ms. Elizabeth Butler

New Jersey Superfund Branch – 2 Emergency and Remedial Response Division U.S. Environmental Protection Agency, Region II 290 Broadway, 20th Floor New York, New York 10007-1866

Mr. Jay Nickerson Bureau of Case Management, Site Remediation Program Mail Code 401-05F P.O. Box 420 Trenton, New Jersey 08625-0420

Glenn Springs Holdings, Inc. 5 Greenway Plaza, Suite 110 Houston, TX 77046 Attention: Juan Somoano

# **ATTACHMENt 1**

# Form Approved OMB No. 2040-0004

NAME	Tierra	Solutions,	Inc.	(formerly
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Chemical Land Holdings, Inc.)

ADDRESS Two Tower Center Boulevard

10<sup>th</sup> Floor

**FACILITY** 

East Brunswick, NJ 08816 Diamond Alkali Superfund Site

LOCATION Newark, Essex County, NJ

## DISCHARGE MONITORING REPORT (DMR)

NJPDES DSW Permit Equivalent – May 2000 PERMIT NUMBER

**FROM** 

DISCHARGE NUMBER	

 MONITORING PERIOD

 YEAR MO
 DAY
 YEAR MO
 DAY

 2017 02
 01
 2017 02
 28

☐ Check here if no Discharge.

Note: Read Instructions before completing this form.

		QUAN'	TITY OR LOADING	;	C	QUALITY OR CONC	ENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	OF ANALYSIS	TYPE
Flow	SAMPLE	66,324	7,807	GPD					0	1/30	Flow Meter
1 100	PERMIT REQUIREMENT	NL <sup>1</sup>	NL	GFD					0	1/30	Flow Meter
Total Suspended Solids	SAMPLE				N/A	10.0 U	10.0 U	mg/l	0	1/30	Grab
Total Suspended Solids	PERMIT REQUIREMENT		95		N/A	30	50	mg/i	0	1/30	Grab
Total Organic Carbon	SAMPLE				N/A	1.0 U	1.0 U	m = /1	0	1/30	Grab
Total Organic Carbon	PERMIT REQUIREMENT				N/A	NL	40	─ mg/l	0	1/30	Grab
Petroleum Hydrocarbons	SAMPLE				N/A	5.0 UJL 5.0	UJL	mg/l	0	1/30	Grab
	PERMIT REQUIREMENT				N/A	10	15	IIIg/I	0	1/30	Grab
pH	SAMPLE				7.16	NA	7.98	SU	0	1/30	Grab
γп	PERMIT REQUIREMENT				6	NL	9	30	0	1/30	Grab
2,4,6-Trichlorophenol	SAMPLE				N/A	5.0 U	5.0 U	/1	0	1/30	Grab
2,4,0-111CHIOLOPHEHOL	PERMIT REQUIREMENT				N/A	115	260	— μg/l	0	1/30	Grab
2-Chlorophenol	SAMPLE				N/A	5.0 U	5.0 U	ug/l	0	1/30	Grab
	PERMIT REQUIREMENT				N/A	35	125	— μg/l	0	1/30	Grab
NAME/TITLE PRINCIPAL EXECUTIVE OFFICE	R I certify under per or supervision in a		nt a nd all attachments were print a nd all attachments were printed to assure that qualifie			9:1/		TELEPHON	E	DATE	
Brian Mikucki	and evaluate the in	nformation submitted. Based	on my inquiry of the person for gathering the information,	or persons who m	anage the	- Imp	(7	32) 579-75	86 201	7 03 24	
Project Coordinator	to the best of my l	nowledge and belief, true, a	or gamering the information, accur ate, and complete. I mation, including the possibil	here are SIGNATURE OF PRINCIPAL EXECUTIVE			<i>'</i>	00 201			
TYPED OR PRINTED	for knowing viola		maron, merading the possibil	ny or time and hitp	OFF	FICER OR AUTHORIZED AC	AF	REA NUM	/BER	YEAR MO	DAY

**COMMENT AND EXPLANATION OF ANY VIOLATIONS** (Reference all attachments here) 1) The flow quantity is actually the total flow discharged for the entire month. 2) NL – Not Limited. 3) N/A – Not Applicable. 4) U – Constituent Analyzed, but Not Detected. 5) GPD – Gallons per Day. 6) Ibs/day – pounds/day. 7) J – Detection limit is estimated.

EPA Form 3220-1 (Rev. 03-99) Previous editions may be used.

PAGE 1 OF 7

#### DISCHARGE MONITORING REPORT (DMR)

**NAME** Tierra Solutions, Inc. (formerly

Chemical Land Holdings, Inc.)

ADDRESS Two Tower Center Boulevard

10<sup>th</sup> Floor

East Brunswick, NJ 08816

FACILITY Diamond Alkali Superfund Site LOCATION Newark, Essex County, NJ

NJPDES DSW Permit Equivalent – May 2000 PERMIT NUMBER

DISCHARGE NUMBER

Form Approved OMB No. 2040-0004

	MONITORING PERIOD											
	YEAR M	0	DAY		YEAR M	0	DAY					
FROM	2017 0	2	01	то	2017 0	2	28					

☐ Check here if no Discharge.

Note: Read Instructions before completing this form.

		QUAN <sup>*</sup>	TITY OR LOADING	;	c	UALITY OR CONC	ENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	OF ANALYSIS	TYPE
2,4-Dichlorophenol	SAMPLE				N/A	5.1 UJ	5.1 UJ	//	0	1/30	Grab
2,4-5101101041101	PERMIT REQUIREMENT				N/A	23	150	— μg/l	0	1/30	Grab
Phenol	SAMPLE				N/A	23 UJ	23 UJ	ua/l	0	1/30	Grab
Filetioi	PERMIT REQUIREMENT				N/A	23	40	— μg/l	0	1/30	Grab
1,2,4-Trichlorobenzene	SAMPLE				N/A	5.0 U	5.0 U	LIG/I	0	1/30	Grab
1,2,4-THCHIOTODEHZEHE	PERMIT REQUIREMENT		272		N/A	45	90	— μg/l	0	1/30	Grab
Hovachlorobonzono	SAMPLE	4.8E-04 7	2E-04	lbs/d	N/A	22 UJ	22 UJ	ug/l	0	1/30	Grab
Hexachlorobenzene	PERMIT REQUIREMENT	NL	16.3	ay	N/A	22	40	— μg/l	0	1/30	Grab
1,2-Dichlorobenzene	SAMPLE				N/A	5.0 U	5.0 U	μg/l	0	1/30	Grab
1,E-Dictior obchizenc	PERMIT REQUIREMENT		21		N/A	40	110	μул	0	1/30	Grab
1,3-Dichlorobenzene	SAMPLE				N/A	5.0 U	5.0 U	lug/l	0	1/30	Grab
1,0-bicinorobenzene	PERMIT REQUIREMENT				N/A	25	35	— μg/l	0	1/30	Grab
1,4-Dichlorobenzene	SAMPLE				N/A	5.0 U	5.0 U	ua/l	0	1/30	Grab
1,4-Dictiloropenzene	PERMIT REQUIREMENT				N/A	18	45	— μg/l	0	1/30	Grab
NAME/TITLE PRINCIPAL EXECUTIVE OFFICE	I certify under pen		ent a nd all attachments were p signed to assure that qualifie			9 . / / .		TELEPHO	NE	DAT	E
Brian Mikucki	and evaluate the in	formation submitted. Based	on my inquiry of the person	or persons who m	nanage the Demonstration		(7	(732) 579-7586		7 03 24	
Project Coordinator	to the best of my k	e persons directly responsible for gathering the information, the information submitted is, y knowledge and belief, true, accurate, atc, and complete. I am aware that there are alties for submitting false information, including the possibility of fine and imprisonment				ere are SIGNATURE OF PRINCIPAL EXECUTIVE					
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PAGE 2 OF 7

#### Form Approved OMB No. 2040-0004

NAME	Tierra	Solutions,	Inc.	(former
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Chemical Land Holdings, Inc.)

ADDRESS Two Tower Center Boulevard

10th Floor

East Brunswick, NJ 08816

**FACILITY** Diamond Alkali Superfund Site **LOCATION** Newark, Essex County, NJ

### NJPDES DSW Permit Equivalent -May 2000 **PERMIT NUMBER**

**FROM** 

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MONITORING PERIOD										
YEAR MC	)	DAY		YEAR M	0	DAY				
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☐ Check here if no Discharge. Note: Read Instructions before completing this form.

		QUAN	TITY OR LOADING	3	a	UALITY OR CONC	ENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	OF ANALYSIS	TYPE
Fluoranthene	SAMPLE				N/A	10 UJ	10 UJ	/!	0	1/30	Grab
riuorantiiene	PERMIT REQUIREMENT				N/A	NL	16	– μg/l	0	1/30	Grab
Naphthalene	SAMPLE				N/A	5.1 UJ	5.1 UJ	/1	0	1/30	Grab
Naphthalene	PERMIT REQUIREMENT				N/A	35	105	– μg/l	0	1/30	Grab
Phenanthrene	SAMPLE				N/A	5.1 UJ	5.1 UJ	/1	0	1/30	Grab
Phenanuirene	PERMIT REQUIREMENT				N/A	35	105	– μg/l	0	1/30	Grab
Benzene	SAMPLE				N/A	5.0 U	5.0 U	/1	0	1/30	Grab
	PERMIT REQUIREMENT				N/A	21	57	μg/l	0	1/30	Grab
Chlorobenzene	SAMPLE				N/A	5.0 U	5.0 U	/!	0	1/30	Grab
Chlorobetizette	PERMIT REQUIREMENT	5777			N/A	23	45	μg/l	0	1/30	Grab
1,2-Dichloroethane	SAMPLE				N/A	5.0 U	5.0 U	ua/l	0	1/30	Grab
1,2-Dictiloroediane	PERMIT REQUIREMENT				N/A	30	85	– μg/l	0	1/30	Grab
1.1.1-Trichloroethane	SAMPLE				N/A	5.0 U	5.0 U	ua/I	0	1/30	Grab
i, i, i-monoroemane	PERMIT REQUIREMENT				N/A	25	65	— μg/l	0	1/30	Grab
NAME/TITLE PRINCIPAL EXECUTIVE OFFIC			ent a nd all attachments were signed to assure that qualific			9. /		TELEPHON	E	DATE	=
Brian Mikucki Project Coordinator	and evaluate the in system, or those pu to the best of my k	formation submitted. Base ersons directly responsible nowledge and belief, true,	d on my inquiry of the person for gathering the information, accur ate, and complete.	n or persons who m the information su I am aware that the	no manage the n submitted is,			(732) 579-7586 20°		7 03 24	
TYPED OR PRINTED	significant penaltic for knowing violat		mation, including the possibi	lity of fine and imp				EA NUM	/IBER	YEAR MO	DAY

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#### Form Approved OMB No. 2040-0004

NAME	Tierra	Solutions,	Inc.	formerl

Chemical Land Holdings, Inc.)

ADDRESS Two Tower Center Boulevard

10th Floor

**FACILITY** 

East Brunswick, NJ 08816

Diamond Alkali Superfund Site

**LOCATION** Newark, Essex County, NJ

### NJPDES DSW Permit Equivalent -May 2000 **PERMIT NUMBER**

**DISCHARGE NUMBER** 

	MONITORING PERIOD											
	YEAR M	0	DAY		YEAR M	0	DAY					
FROM	2017 0	2	01	то	2017 0	2	28					

☐ Check here if no Discharge. Note: Read Instructions before completing this form.

		QUAN	TITY OR LOADING	3	C	UALITY OR CONC	ENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	OF ANALYSIS	TYPE
1,1-Dichloroethane	SAMPLE				N/A	5.0 U	5.0 U	/!	0	1/30	Grab
1,1-Dictiloroethane	PERMIT REQUIREMENT				N/A	25	65	μg/l	0	1/30	Grab
Chlavafavo	SAMPLE				N/A	5.0 U	5.0 U	/)	0	1/30	Grab
Chloroform	PERMIT REQUIREMENT				N/A	20	40	μg/l	0	1/30	Grab
Trans-1,2-Dichloroethene	SAMPLE				N/A	5.0 U	5.0 U		0	1/30	Grab
	PERMIT REQUIREMENT				N/A	25	65	- μg/l	0	1/30	Grab
Ethad Danier	SAMPLE				N/A	5.0 U	5.0 U		0	1/30	Grab
Ethyl Benzene	PERMIT REQUIREMENT				N/A		430	μg/l	0	1/30	Grab
Toluene	SAMPLE				N/A	5.0 U	5.0 U	/!	0	1/30	Grab
roluene	PERMIT REQUIREMENT				N/A	18	35	μg/l	0	1/30	Grab
Trichloroethene	SAMPLE				N/A	5.0 U	5.0 U	/!	0	1/30	Grab
Tricinoroethene	PERMIT REQUIREMENT				N/A	25	65	μg/l	0	1/30	Grab
Vinyl Chloride	SAMPLE				N/A	5.0 U	5.0 U	/1	0	1/30	Grab
Villyi Cilionae	PERMIT REQUIREMENT				N/A	25	65	- μg/l	0	1/30	Grab
NAME/TITLE PRINCIPAL EXECUTIVE OFFIC	ER I certify under pen		ent a nd all attachments were signed to assure that qualifi			9 . / / .		TELEPHON	E	DATE	=
Brian Mikucki Project Coordinator	and evaluate the in system, or those p	formation submitted. Basec ersons directly responsible f	d on my inquiry of the persor for gathering the information, accur ate, and complete.	or persons who m the information su	nanage the abmitted is,	TURE OF PRINCIPAL EXE		2) 579-75	86 201	7 03 24	
TYPED OR PRINTED		es for submitting false infor	mation, including the possibi		l CIONA	ICER OR AUTHORIZED A		A NUM	/BER	YEAR MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) 1) The flow quantity is actually the total flow discharged for the entire month. 2) NL - Not Limited. 3) N/A - Not Applicable. 4) U - Constituent Analyzed, but Not Detected. 5) GPD - Gallons per Day. 6) lbs/day - pounds/day. 7) J - Detection limit is estimated.

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PAGE 4 OF 7

#### **DISCHARGE MONITORING REPORT (DMR)**

**NAME** Tierra Solutions, Inc. (formerly

Chemical Land Holdings, Inc.)
Two Tower Center Boulevard

10th Floor

East Brunswick, NJ 08816

FACILITY Diamond Alkali Superfund Site LOCATION Newark, Essex County, NJ

LOCATION FROM

ADDRESS

NJPDES DSW Permit Equivalent – May 2000 PERMIT NUMBER

---DISCHARGE NUMBER

Form Approved OMB No. 2040-0004

MONITORING PERIOD									
YEAR MO	DAY		YEAR M	0	DAY				
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Note: Read Instructions before completing this form.

		QUAN'	TITY OR LOADING	;	C	UALITY OR CONC	ENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNI TS	EX	OF ANALYSIS	TYPE
4,4-DDT	SAMPLE	7.6E-06	1.1E-05	lbs/d	N/A	0.35 UJ	0.35 UJ		0	1/30	Grab
4,4-001	PERMIT REQUIREMENT	NL	0.25	ay	N/A	NL	0.34	μg/l	0	1/30	Grab
4,4-DDE	SAMPLE				N/A	0.36 U	0.36 U	μg/l	0	1/30	Grab
4,4-002	PERMIT REQUIREMENT				N/A	NL	14	рул	0	1/30	Grab
Alpha-endosulfan	SAMPLE				N/A	0.050 U 0.0	)50 U	μg/l	0	1/30	Grab
Aipha-chuosunan	PERMIT REQUIREMENT		<u> </u>		N/A	32	90	рул	0	1/30	Grab
2,4-D	SAMPLE				N/A	11 UJ	11 UJ		0	1/30	Grab
2,4-0	PERMIT REQUIREMENT		2		N/A	1,500	3,300	- μg/l	0	1/30	Grab
2,4-DB	SAMPLE				N/A	16 UJ	16 UJ	] ,,,,/	0	1/30	Grab
2,4-00	PERMIT REQUIREMENT				N/A	17	25	μg/l	0	1/30	Grab
Dinoseb (DNBP)	SAMPLE				N/A	1.6 U	1.6 U	μg/l	0	1/30	Grab
Dinoses (BNB)	PERMIT REQUIREMENT		2-2-2		N/A	420	790	μg/i	0	1/30	Grab
Dioxin (2,3,7,8-TCDD)	SAMPLE	1.8E-09 2	6E-09	lbs/d	N/A 0.0	00081 U 0.000	081 U	lug/l	0	1/30	Grab
DIOXIII (2,0,1,0-10DD)	PERMIT REQUIREMENT	NL	0.00006	ay	N/A	, NJ.	0.000081	- μg/l	0	1/30	Grab
NAME/TITLE PRINCIPAL EXECUTIVE OFFICE	R I certify under pen		ent a nd all attachments were signed to assure that qualifie			9. 1	Т	ELEPHON	E	DATE	
Brian Mikucki Project Coordinator	and evaluate the ir system, or those p	formation submitted. Based ersons directly responsible f	on my inquiry of the person or gathering the information,	or persons who m the information su	nanage the abmitted is,	TURE OF PRINCIPAL FYE		<b>5</b> 79-75	86 201	7 03 24	
TYPED OR PRINTED	Project Coordinator to the best of my knowledge and belief, true, accur at ea, and complete. I am aware that there are signature of PRINCIPAL EXECUTIVE								MBER	YEAR MO	DAY

**COMMENT AND EXPLANATION OF ANY VIOLATIONS** (*Reference all attachments here*) 1) The flow quantity is actually the total flow discharged for the entire month. 2) NL – Not Limited. 3) N/A – Not Applicable. 4) U – Constituent Analyzed, but Not Detected. 5) GPD – Gallons per Day. 6) lbs/day – pounds/day. 7) J – Detection limit is estimated. 8) The 2,4-D result is based on the analysis of the field duplicate sample, as approved by the USEPA via email on 11/15/16, because the result from the parent sample was rejected based on MS/MSD recoveries.

EPA Form 3220-1 (Rev. 03-99) Previous editions may be used.

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# Form Approved OMB No. 2040-0004

NAME	Tierra	Solutions,	Inc.	(formarl
NAME	Hella	Solutions,	mc.	(101111 <del>0</del> 11)

Chemical Land Holdings, Inc.)

ADDRESS Two Tower Center Boulevard

10th Floor

East Brunswick, NJ 08816
Diamond Alkali Superfund Site
Newark, Essex County, NJ

FROM

**FACILITY** 

**LOCATION** 

NJPDES DSW Permit Equivalent –
May 2000
PERMIT NUMBER

---DISCHARGE NUMBER

MONITORING PERIOD									
YEAR MO	DAY		YEAR M	0	DAY				
		то							
2017 02	01		2017 0	2	28				

Check here if no Discharge.

Note: Read Instructions before completing this form.

		QUANTITY OR LOADING			QUALITY OR CONCENTRATION					NO.	FREQUENC	SAMPLE
PARAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIM	UM	UNI TS	EX	OF ANALYSIS	TYPE
Total Recoverable Antimony	SAMPLE				N/A	60 U	60 L	J	μg/l	0	1/30	Grab
Total Recoverable Antimony	PERMIT REQUIREMENT				N/A	200	305	,	μg/i	0	1/30	Grab
Total Recoverable Arsenic	SAMPLE				N/A	10 U	10 ເ	J	ua/I	0	1/30	Grab
Total Recoverable Alseilic	PERMIT REQUIREMENT				N/A	50	115	i	μg/l	0	1/30	Grab
Total Recoverable Beryllium	SAMPLE				N/A	8.6 U	8.6 เ	J	ua/l	0	1/30	Grab
Total Recoverable Beryllium	PERMIT REQUIREMENT				N/A	NL	8.6		— μg/l	0	1/30	Grab
Total Recoverable Cadmium	SAMPLE				N/A	31 U	31 l	J	μg/l	0	1/30	Grab
Total Recoverable Cadmium	PERMIT REQUIREMENT	<u></u> 3			N/A	NL	31		μg/i	0	1/30	Grab
Hexavalent Chromium	SAMPLE				N/A	44 U	44 (	J	ua/I	0	1/30	Grab
riexavalent Gillomium	PERMIT REQUIREMENT				N/A	NL	66		μg/l	0	1/30	Grab
Trivalent Chromium	SAMPLE				N/A	10 U	10 ι	J	/1	0	1/30	Grab
Trivalent Chiomium	PERMIT REQUIREMENT				N/A	NL	44		μg/l	0	1/30	Grab
Total Recoverable Copper	SAMPLE				N/A	62 U	62 L	j	<b>c</b> //	0	1/30	Grab
Total Necoverable copper	PERMIT REQUIREMENT				N/A	NL	62		μg/l	0	1/30	Grab
NAME/TITLE PRINCIPAL EXECUTIVE OFFICE			nt a nd all attachments were signed to assure that qualific			d · / /		TEL	EPHONE	Ξ	DA	TE
Brian Mikucki	and evaluate the in	nformation submitted. Based	on my inquiry of the person or gathering the information,	or persons who n	anage the	- Ihuh-la.		732) 4	79_759	36 201	7 03 24	
Project Coordinator	to the best of my k	mowledge and belief, true, a	ccur ate, and complete. nation, including the possibi	am aware that the	re are SIGNA	TURE OF PRINCIPAL EXEC	CUTIVE	` '				
TYPED OR PRINTED	for knowing violat				OFF.	TOLK OK AUTHORIZED AC	7C11 1	AREA	NUM	BER	YEAR M	O DAY

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# Form Approved OMB No. 2040-0004

#### NAME Tierra Solutions, Inc. (formerly

Chemical Land Holdings, Inc.)

ADDRESS Two Tower Center Boulevard

10th Floor

**FACILITY** 

East Brunswick, NJ 08816 Diamond Alkali Superfund Site

LOCATION Newark, Essex County, NJ

#### NJPDES DSW Permit Equivalent – May 2000 PERMIT NUMBER

**FROM** 

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MONITORING PERIOD									
YEAR M	0	DAY		YEAR M	0	DAY			
2017.0	0	01	то	2017.0		28			
2017 0	<u> </u>	01		2017 0	<u> </u>	20			

☐ Check here if no Discharge.

Note: Read Instructions before completing this form.

		QUAN	TITY OR LOADING	3	Q	UALITY OR CONC	ENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	OF ANALYSIS	TYPE
Total Recoverable Lead	SAMPLE				N/A	18 U	18 U	ua/l	0	1/30	Grab
Total Recoverable Lead	PERMIT REQUIREMENT				N/A	NL	18	μg/l	0	1/30	Grab
Total Bassyarahla Maraum	SAMPLE				N/A	3.4 U	3.4 U	/1	0	1/30	Grab
Total Recoverable Mercury	PERMIT REQUIREMENT				N/A	NL	3.4	μg/l	0	1/30	Grab
Total Bassyarahla Niekal	SAMPLE				N/A	73 U	73 U	/1	0	1/30	Grab
Total Recoverable Nickel	PERMIT REQUIREMENT				N/A	NL	73	μg/l	0	1/30	Grab
Total Bassyorable Silver	SAMPLE				N/A	69 U	69 U	/1	0	1/30	Grab
Total Recoverable Silver	PERMIT REQUIREMENT				N/A	NL	69	μg/l	0	1/30	Grab
Total Recoverable Zinc	SAMPLE				N/A	47 U	47 U	ua/l	0	1/30	Grab
Total Necoverable Zilic	PERMIT REQUIREMENT				N/A	NL	47	μg/l	0	1/30	Grab
Total Cyanide	SAMPLE				N/A	78 U	78 U	ua/l	0	1/30	Grab
rotal Cyamide	PERMIT REQUIREMENT				N/A	NL	78	μg/l	0	1/30	Grab
	SAMPLE				N/A						
	PERMIT REQUIREMENT				N/A						
NAME/TITLE PRINCIPAL EXECUTIVE OFFIC	ER I certify under per		nt a nd all attachments were signed to assure that qualific					TELEPHON	E	DATE	Ē
Brian Mikucki  Brian Mikucki  Project Coordinator  or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accur ate, and complete. I am aware that there are						TURE OF PRINCIPAL EXE		2) 579-75	86 201	7 03 24	
TYPED OR PRINTED	significant penalti for knowing viola		slse information, including the possibility of fine and imprisonment OFFICER OR AUTHORIZED AGENT AREA NUMBER					1BER	YEAR MO	DAY	

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) 1) The flow quantity is actually the total flow discharged for the entire month. 2) NL – Not Limited. 3) N/A – Not Applicable. 4) U – Constituent Analyzed, but Not Detected. 5) GPD – Gallons per Day. 6) lbs/day – pounds/day. 7) J – Detection limit is estimated.

EPA Form 3220-1 (Rev. 03-99) Previous editions may be used.

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# ATTACHMENT 2

## FEBRUARY 2017 SUPPLEMENTAL TABLE FOR MONTHLY DISCHARGE MONITORING REPORT DIAMOND ALKALI SUPERFUND SITE NEWARK, NEW JERSEY

			Sample ID:	W-TSI- <del>ETT</del> -020117	W-TSI-ETF-DUP-020117	TB-020117-712R
	Permit	Limitation				
Constituent			Sample Date:	2/1/2017	2/1/2017	2/1/2017
	Monthly	Daily	SDGNumber:	LISTER712R	LISTER712R	LISTER712R
	Avg.	Max	Units	Effluent	Effluent Duplicate	Trip Blank
Total Suspended Solids(TSS)	30	50	mg/l	10 U	10 U	_
Total Organic Carbon (TOC)		40	mg/I	1.0 U	1.0 U	_
Petroleum Hydrocarbons	10	15	mg/I	5.0 U	5.0 U	_
рН		6 - 9	ŠÚ	7.6	7.60	=
2,4,6-Trichlorophenol	115	260	μg/I	5.1 W	5.1 W	_
2-Chlorophenol	35	125	μg/I	5.1 W	5.1 W	_
2,4-Dichlorophenol	23	150	μg/I	5.1 W	5.1 W	_
Phenol	23	40	μg/I	23 W	23 W	_
1,2,4-Trichlorobenzene	45	90	μg/I	5.0 U	5.0 U	5.0 U
Hexachlorobenzene	22	40	μg/I	22 W	22 W	_
1,2-Dichlorobenzene	40	110	μg/I	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	25	35	μg/I	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	18	45	μg/I	5.0 U	5.0 U	5.0 U
Fluoranthene		16	μg/I	10 W	10 W	_
Naphthalene	35	105	µg/I	5.1 W	5.1 W	_
Phenanthrene	35	105	µg/I	5.1 W	5.1 W	_
Benzene	21	57	μg/I	5.0 U	5.0 U	5.0 U
Chlorobenzene	23	45	μg/I	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	30	85	µg/l	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	25	65	μg/I	5.0 U	5.0 U	5.0 U
1.1-Dichloroethane	25	65	μg/I	5.0 U	5.0 U	5.0 U
Chloroform	20	40	μg/I	5.0 U	5.0 U	5.0 U
1,2-Dichloroethene (Total)	25	65	μg/I	5 U	5 U	-
trans-1,2-Dichloroethene	25	65	μg/I	5.0 U	5.0 U	5.0 U
Ethylbenzene		430	μg/I	5.0 U	5.0 U	5.0 U
Toluene	18	35	μg/I	5.0 U	5.0 U	5.0 U
Trichloroethene	25	65	μg/I	5.0 U	5.0 U	5.0 U
Vinyl Chloride	25	65	μg/I	5.0 U	5.0 U	5.0 U
4,4-DDT		0.34	μg/I	0.35 W	0.35 W	-
4,4-DDE	_	14	μg/I	0.36 U	0.36 U	_
Endosulfan I	32	90	µg/l	0.05 U	0.05 U	_
2,4-D	1,500	3,300	μg/I	11 W	11 W	_
2,4-DB	17	25	μg/I	16 W	16 W	_
Dinoseb (DNBP)	420	790	μg/I	1.6 U	1.6 U	_
Dioxin (2,3,7,8-TCDD)		0.000081	μg/I	0.000081 U	0.000081 U	_
Total Recoverable Antimony	200	305	μg/I	60 U	60 U	_
Total Recoverable Arsenic	50	115	μg/I	10 U	10 U	_
Total Recoverable Beryllium		8.6	μg/I	8.6 U	8.6 U	_
Total Recoverable Cadmium		31	μg/I	31 U	31 U	_
Hexavalent Chromium		66	μg/I	44 U	44 U	_
Trivalent Chromium *		44	μg/I	10 U	10 U	<u> </u>
Total Recoverable Copper		62	μg/I	62 U	62 U	_
Total Recoverable Lead		18	μg/I	18 U	18 U	_
Total Recoverable Mercury		3.4	μg/I	3.4 U	3.4 U	_
Total Recoverable Nickel		73	μg/I	73 U	73 U	_
Total Recoverable Silver		69	μg/I	69 U	69 U	_ _
Total Recoverable Zinc		47	μg/I μg/I	47 U	47 U	_
Total Cyanide		78	µg/l	78 U	78 U	_ _
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Notes:

mg/I-Milligrams/liter µg/I-Micrograms/liter SU-Standard units

<sup>---</sup>Not applicable

U-Constituent was not detected above the associated detection limit

W- The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

\* Trivalent Chromium Concentration is calculated based on the total and hexavalent chromium results.

### FEBRUARY 2017 MONTHLY DISCHARGE ANALYTICAL DATA SUMMARY DIAMOND ALKALI SUPERFUND SITE NEWARK, NEW JERSEY

1859-014 (1964-1964)						
	Permit Li	mitation	Sample ID:	W-TSI- <del>ETT</del> -020117	Monthly	Daily
Constituent		THERIOT	SDG Number:	LISTER712R	Average <sup>(1)</sup>	Maximum
	Monthly Avg.	Daily Max	Units	Effluent	Average	Maxilluli
Flow	_		GPD	_	66,324	7,807
Total Suspended Solids(TSS)	30	50	mg/I	10 U	10 U	3 U
Total Organic Carbon (TOC)	_	40	mg/I	1.0 U	1.0 U	1.0 U
Petroleum Hydrocarbons	10	15	mg/I	5.0 U	5.0 U	5.0 U
Field pH Range (February, 2017)	_	6 - 9	šu	6.90 - 8.03	NA	8.03
2,4,6-Trichlorophenol	115	260	μg/I	5.1 W	5.1 W	5.1 W
2-Chlorophenol	35	125	μg/I	5.1 W	5.1 W	5.1 W
2,4-Dichlorophenol	23	150	μg/I	5.1 W	5.1 W	5.1 W
Phenol	23	40	μg/I	23 W	23 W	23 W
1,2,4-Trichlorobenzene	45	90	μg/I	5.0 U	5.0 U	5.0 U
Hexachlorobenzene	22	40	μg/I	22 W	22 W	22 W
Hexachlorobenzene	_	16.3	lbs/d	NA	4.8E-04	7.2E-04
1,2-Dichlorobenzene	40	110	μg/I	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	25	35	μg/I	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	18	45	μg/I	5.0 U	5.0 U	5.0 U
Fluoranthene	_	16	μg/I	10 W	10.0 W	10 W
Naphthalene	35	105	μg/I	5.1 W	5.1 W	5.1 W
Phenanthrene	35	105	μg/I	5.1 W	5.1 W	5.1 W
Benzene	21	57	μg/I	5.0 U	5.0 U	5.0 U
Chlorobenzene	23	45	μg/I	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	30	85	μg/I	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	25	65	μg/I	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	25	65	μg/I	5.0 U	5.0 ∪	5.0 U
Chloroform	20	40	μg/I	5.0 U	5.0 U	5.0 U
1,2-Dichloroethene (Total)	25	65	μg/I	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	25	65	μg/I	5.0 U	5.0 U	5.0 U
Ethylbenzene	_	430	μg/I	5.0 U	5.0 U	5.0 U
Toluene	18	35	μg/I	5.0 U	5.0 U	5.0 U
Trichloroethene	25	65	μg/I	5.0 U	5.0 U	5.0 U
Vinyl Chloride	25	65	μg/I	5.0 U	5.0 U	5.0 U
4,4-DDT	_	0.34	μg/I	0.35 W	0.35 W	0.35 W
4,4-DDT	_	0.25	lbs/d	NA	7.6E-06	1.1E-05
4,4-DDE	_	14	μg/I	0.36 U	0.36 U	0.36 U
Endosulfan I	32	90	μg/I	0.05 U	0.050 U	0.05 U
2,4-D	1,500	3,300	μg/I	11 W	11.0 W	11 W
2,4-DB	17	25	μg/I	16 W	16.0 W	16 W
Dinoseb (DNBP)	420	790	μg/I	1.6 U	1.6 U	1.6 U
Dioxin (2,3,7,8-TCDD)	_	0.000081	μg/l	0.000081 U	0.000081 U	0.000081 U
Dioxin	_	0.00006	lbs/d	NA	1.8E-09	2.6E-09
Total Recoverable Antimony	200	305	μg/I	60 U	60 U	60 U
Total Recoverable Arsenic	50	115	μg/I	10 U	10 U	10 U
Total Recoverable Beryllium	_	8.6	μg/I	8.6 U	8.6 U	8.6 U
Total Recoverable Cadmium	_	31	μg/I	31 U	31 U	31 U
Hexavalent Chromium	_	66	μg/I	44 U	44 U	44 U
Trivalent Chromium	_	44	μg/I	10 U	10 U	10 U
Total Recoverable Copper	_	62	μg/I	62 U	62 U	62 U
Total Recoverable Lead	_	18	μg/I	18 U	18 U	18 U
Total Recoverable Mercury	_	3.4	μg/I	3.4 U	3.4 U	3.4 U
Total Recoverable Nickel	_	73	μg/I	73 U	73 U	73 U
Total Recoverable Silver	_	69	μg/I	69 U	69 U	69 U
Total Recoverable Zinc	_	47	μg/I	47 U	47 U	47 U
Total Cyanide	_	78	μg/I	78 U	78 U	78 U
Notes:	NAMES OF THE PROPERTY OF T	CHARLES OF THE PARTY OF T	THE RESIDENCE OF THE PROPERTY	For the state of the Community and the Community	AND THE PROPERTY OF THE PROPER	THE PRINCIPLE OF THE PR

GPD-Gallons perday

mg/I-Milligrams/liter

µg/I - Micrograms/liter SU-Standard units

U - Constituent was not detected above the associated detection limit.

 $<sup>\</sup>hbox{$W$ - The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.}$ 

<sup>(1)</sup> A Monthly Average Flow value is not calculated, value presented is the actual total flow (in gallons) for the month. Monthly averages are based on 1/2 the detection limit, where applicable.

The mass loadings for hexachlorobenzene, 4,4-DDT, and 2,3,7,8-TCDD (dioxin) were calculated based on 1/2 of the detection limit.